

B. EQUIPMENT TO BE FURNISHED AND/ OR INSTALLED BY THE CONTRACTOR ITEM NO. 1001 2002 5004 5005 5008 8011 8048 8061 8076 8077 8086 8087

QUANTITY	DESCRIPTION
1 EACH 1 C.Y. 370 L.F. 60 L.F. 190 L.F.	MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION F & I 12" WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING F & I 24" WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING REMOVAL OF EXISTING PAVEMENT MARKINGS - ANY WIDTH
42 EACH 1 EACH	F & I 12" VECHICULAR BLACK FACED TRAFFIC SIGNAL HEAD SECTION REMOVE AND DISPOSE OF EXISTING MARTERIAL PER ASSIGNMENT
150 L.F. 168.9 S.F.	F & I WOOD SIGN SUPPORTS - 4" × 6" INSTALL GROUND MOUNTED SIGN
63.6 S.F. 60 L.F. 915 L.F.	INSTALL OVERHEAD MOUNTED SIGN  F & I ELECTRICAL CABLE - 5-CONDUCTOR (NO. 14 AWG)  F & I ELECTRICAL CABLE - 7-CONDUCTOR (NO. 14 AWG)

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES REPLACING ALL THE EXISTING TRAFFIC SIGNAL HEADS WITH BLACK SIGNAL HEADS AT THE INTERSECTION OF MD 414 AND RALEIGH ROAD/ TEMPLE HILLS ROAD IN PRINCE GEORGES COUNTY. THE EXISTING EXCLUSIVE/ PREMISSIVE LEFT TURN PHASES ALONG EASTBOUND, AND WESTBOUND MD 414 IS TO BE CHANGED TO EXCLUSIVE/ PREMISSIVE LEFT TURN PHASES WITH FLASHING RED SIGNAL ARROWS ALONG WITH THE SIGN "LEFT TURN YIELD ON FLASHING RED ARROW AFTER STOP". IT ALSO INVOLVES ADDING NEAR SIDE SIGNALS IN ALL DIRECTIONS, AND INSTALLING CROSSWALKS ON THE WEST LEG OF MD 414. A W3-3 SIGN WILL BE PROVIDED FOR SOUTHBOUND RALEIGH ROAD. STREET NAME SIGNS WILL BE PROVIDED ON BOTH APPROACHES OF MD 414. MD 414 RUNS IN A EAST-WEST DIRECTION.

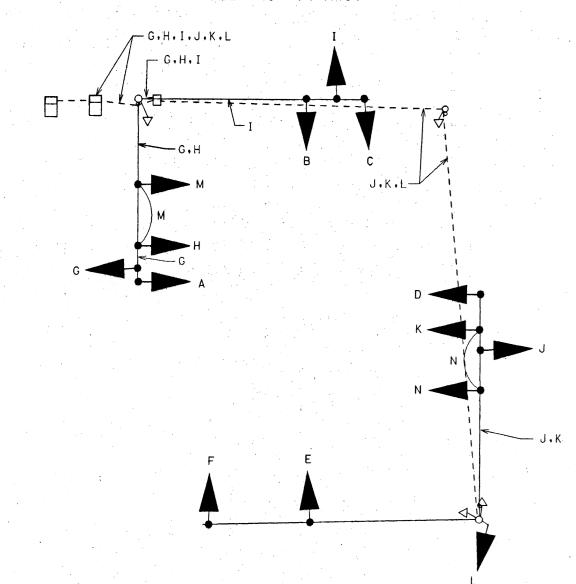
C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM

MD 414 RUNS IN A

A-F = USE THE EXISTING CABLE G-L = 7-CONDUCTOR CABLE (NO. 14 AWG) M-N = 5-CONDUCTOR CABLE (NO. 14 AWG)



PHASE CHART	1	2	3	4	5	6	. 7	8	9	10	11	12	13	14	15-16	17	18	19	20	
			R Y G	R Y G			R Y G	R	R	R	R Y G	R Y G	R Y G	R	P 2	<b>小</b>	P. 2	P 2	P 2	
PHASE 1 & 5	<b>∢</b> G-	<b>∢</b> G-	R	R	<b>∢</b> G-	<b>∢</b> G~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	<b>A</b>
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6															▼				
PHASE 1 & 6	<b>∢</b> G-	<b>∢</b> G-	G	G	<b>∢</b> R-	<b>∢</b> R~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	<b>A</b>
1 CHANGE	<b>◄</b> Y-	<b>∢</b> Y-	G	G	<b>∢</b> R-	<b>∢</b> R~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	-
PHASE 2 & 5	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> G-	<b>∢</b> G~	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	4
5 CHANGE	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> Y-	<b>∢</b> Y~	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	₩
PHASE 2 & 6	<b>⋖</b> F/R-	<b>⋖</b> F/R-	G	G	<b>⋖</b> F/R-	<b></b> F/R−	G	G	R	R	R	R	R	R	WK	DW	DW	DW	DW	
PED. CLEAR	<b>⋖</b> F/R-	<b>⋖</b> F/R-	G	G	<b>⋖</b> F/R-	<b>⋖</b> F/R-	G	G	R	R	R	R	R	R	FL/DW	DW	DW	DW	DW	
2 & 6 CHANGE	<b>∢</b> R-	<b>∢</b> R-	Y	Y	<b>∢</b> R-	<b>∢</b> R~	Υ	Υ	R	R	R	R	R	R	DW	DW	DW	DW	DW	00
PHASE 4 & 8	<b>∢</b> R−	<b>∢</b> R-	R	R	<b>∢</b> R-	<b>∢</b> R-	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	<b>A</b> 2.
4 & 8 CHANGE	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> R-	<b>∢</b> R-	R	R	Υ	Y	Υ	Y	Y	Υ	DW	DW	DW	DW	DW	
4 & 8 ALT.	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> R-	<b>∢</b> R-	R	R	G	G	G	G	G	G	DW	WK	WK	WK	WK	0   1
PED. CLEAR	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> R-	<b>∢</b> R-	R	R	G	G	G	G	G	G	DW	FL/DW	FL/DW	FL/DW	FL/DW	
4 & 8 ALT.CHANGE	<b>∢</b> R-	<b>∢</b> R-	R	R	<b>∢</b> R-	<b>∢</b> R-	R	R	Y	Υ	Y	Y	Υ	Y	DW	DW	DW	DW	DW	
FLASHING	FL /BA	EL (DA	EL /V	FL /Y	EL (DA	EL (D)		F	F. (5)	F1 /F	- I				D.D.	DADI	2.51	<b>D.D</b>	5.5	<b>→ ↑</b>
OPERATION	ILE/ NA	rL/KA	rL/Y	FL/Y	FL/RA	FL/KA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	<b>+</b>

PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH ASSISTANT DISTRICT ENGINEER - UTILITIES PHONE: (301) 513-7350

MR. RICHARD DAFF CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7631

MR. EDWARD RODENHIZER
CHIEF. SIGNAL OPERATIONS SECTION
PHONE: (410) 787-7652



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

414 and Raleigh Road/ Temple III Road
TEMPLE HILLS, MARYLAND

F.A.P. NO. S.H.A. NO PG434 A57 1857 DRAWN BY: W. Malcolm SHEET NO. TS-146 [ CHECKED BY:\_ SCALE: NOT TO SCALE COUNTY PRINCE GEORGES T.I.M.S. NO. DATE: 02/2002 LOG MILE <u>08021005.77</u>